Kiddie Beach, Hobie Beach, and Harbor Cove Beach

Total Maximum Daily Load



California Regional Water Quality Board, Los Angeles Region

Kiddie and Hobie Beach



Copyright (C) 2002-2004 Kenneth Adelman, California Coastal Records Project, www.Californiacoastline.org

Ventura Harbor



Copyright (C) 2002-2004 Kenneth Adelman, California Coastal Records Project, www.Californiacoastline.org

TMDL Components

- Adopting Resolution
- Basin Plan Amendment
 - TMDL elements in brief form
- CEQA Document
- Staff Report
 - TMDL elements

Numeric Objectives

Indicator	Geometric Mean	Single Sample
Total Coliform	1000 cells/100 ml	10,000cells/100 ml
if Fecal/Total > 0.1		1000 cells/100 ml
Fecal Coliform(<i>E. coli</i>)	200 cells/100 ml	400 cells/100 ml
Enterococcus	35 cells/100 ml	104 cells/100 ml

Existing Data Sources

· VCEHID data

City of Ventura Harbor data

VCWPD rainfall data

Problem Statement

Single Sample Exceedances

Section 1	Summer Dry Weat	ther
	April 1999 - October 2005 (7 Summers/49 Months)	April 2003 - October 2005 (3 Summers/21 Months)
Site	Exceedance Percentage (Exceedance Day/Total Days)	Exceedance Percentage (Exceedance Day/Total Days)
Peninsula Beach (Harbor Cove) –VCEH	4.57% (10/219)	3.3% (3/91)
Peninsula Beach (Harbor Cove) –VPW	5.88% (11/187)	9.09% (7/77)
Channel Islands Harbor Beach (Kiddie Beach)	14.40% (160/1111)	10.34% (49/474)
Hobie Beach	24.07% (65/270)	12.79% (11/86)
Leo Carrillo Beach	0.00%	

Geometric Mean Exceedances

Summer Weather						
Site	April 1999 – October 2005 (7 Summers/49 Months) Exceedance Percentage (Exceedance Day/Total Days)	April 2003 - October 2005 (3 Summers/21 Months) Exceedance Percentage (Exceedance Day/Total Days)				
Peninsula Beach (Harbor Cove) –VCEH	5.00% (11/220)	6.45% (6/93)				
Peninsula Beach (Harbor Cove) -VPW	10.82% (21/194)	16.25% (13/80)				
Channel Islands Harbor Beach (Kiddie Beach)	19.78% (71/359)	15.98% (27/169)				
Hobie Beach	29.33% (66/225)	12.36% (11/89)				
Leo Carrillo Beach	0.00%					

VCEH= County of Ventura, Environmental Health Monitoring Data

Problem Statement

Single Sample Exceedances

		AS BEEN	SUMMI	ER DRY WEATH	IER			
	April 1999 - October 2005 (7 Summers/49 Months)				April 2003 - October 2005 (3 Summers/21 Months)			
	Exceedar	nce Percentage (E	xceedance Day/T	otal Days)	Exceedan	ce Percentage	(Exceedance Day	/Total Days)
Site	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio
Peninsula Beach (Harbor Cove) -VCEH	0.46% (1/219)	1.37% (3/219)	2.28% (5/219)	2.28% (5/219)	1.10% (1/91)	1.10% (1/91)	1.10% (1/91)	1.10% (1/91)
Peninsula Beach (Harbor Cove) -VPW	2.67% (5/187)	0.00% (0/187)	3.81% (4/105)	0.53% (1/187)	5.19% (4/77)	0.00% (0/105)	2.60% (2/77)	1.30% (1/77)
Channel Islands Harbor Beach (Kiddie Beach)	1.17% (13/1111)	5.85% (65/1111)	11.25% (125/1111)	5.04% (56/1111)	1.90% (9/474)	2.53% 12/474)	7.81% (37/474)	2.11% (10/474)
Hobie Beach	1.11% (3/270)	10.74% (29/270)	21.11% (57/270)	8.89% (24/270)	0.00% (0/86)	6.98% (6/86)	9.30% (8/86)	6.98% (6/86)

VCEH= County of Ventura, Environmental Health Monitoring Data

Problem Statement

Single Sample Exceedances

	Winter Dry Weather							
Site	November 1999 – March 2006 (7 Winters/35 Months) Exceedance Percentage (Exceedance Day/Total Days)	November 2003 – March 2006 (3 Winters/15 Months) Exceedance Percentage (Exceedance Day/Total Days)						
Peninsula Beach (Harbor Cove) -VCEH	9.17% (11/120)	9.30% (4/43)						
Peninsula Beach (Harbor Cove) -VPW	0.00% (0/22)	0.00% (0/5)						
Channel Islands Harbor Beach (Kiddie Beach)	27.36% (119/435)	27.27% (33/121)						
Hobie Beach	33.68% (32/95)	20.45% (9/44)						
Leo Carrillo Beach	3.00%							

Geometric Mean Exceedances

Winter Weather							
	November 1999 – March 2006 (7 Winters/35 Months)	November 2003 – March 2006 (3 Winters/15 Months)					
Site	Exceedance Percentage (Exceedance Day/Total Days)	Exceedance Percentage (Exceedance Day/Total Days)					
Peninsula Beach (Harbor Cove) -VCEH	27.39% (43/157)	20.31% (13/64)					
Peninsula Beach (Harbor Cove) -VPW	N/A	N/A					
Channel Islands Harbor Beach (Kiddie Beach)	46.83% (96/205)	38.04% (31/81)					
Hobie Beach	41.90% (44/105)	25.42% (15/59)					
Leo Carrillo Beach	0.00%						

VCEH= County of Ventura, Environmental Health Monitoring Data

Problem Statement

Single Sample Exceedances

			WINTE	R DRY WEATH	ER	2000	te et la se	
			2006 (7 Winters/35	ETHER THE STATE OF	以此处: (1) -			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Site	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio
Peninsula Beach (Harbor Cove) -VCEH	0.83% (1/120)	0.00% (0/120)	8.33% (10/120)	0.00% (0/120)	2.33% (1/43)	0.00% (0/43)	6.98% (3/43)	0.00% (0/43)
Peninsula Beach (Harbor Cove) -VPW	0.00% (0/22)	0.00% (0/22)	0.00% (0/22)	0.00% (0/22)	0.00% (0/5)	0.00% (0/5)	0.00% (0/5)	0.00% (0/5)
Channel Islands Harbor Beach (Kiddie Beach)	0.69% (3/435)	8.74% (38/435)	24.37% (106/435)	7.36% (32/435)	0.00% (0/121)	4.13% (5/121)	25.62% (31/121)	4.96% (6/121)
Hobie Beach	3.16% (3/95)	17.89% (17/95)	32.63% (31/95)	12.63% (12/95)	2.27% (1/44)	6.82% (3/44)	20.45% (9/44)	6.82% (3/44)

VCEH= County of Ventura, Environmental Health Monitoring Data

Problem Statement

Single Sample Exceedances

	Wet Weather	
Site	April 1999 - March 2006 (7years/84 Months) Exceedance Percentage (Exceedance Day/Total Days)	April 2003 - March 2006 (3years/36 Months) Exceedance Percentage (Exceedance Day/Total Days)
Peninsula Beach (Harbor Cove) -VCEH	45.59% (31/68)	36.67% (11/30)
Peninsula Beach (Harbor Cove) -VPW	33.33% (7/21)	38.46% (5/13)
Channel Islands Harbor Beach (Kiddie Beach)	47.45% (93/196)	35.71% (25/70)
Hobie Beach	40.00% (16/40)	27.78% (5/18)
Leo Carrillo Beach	22.00%	

VCEH= County of Ventura, Environmental Health Monitoring Data

Problem Statement

Single Sample Exceedances

	THE REAL PROPERTY.	STATE OF THE PARTY OF	W	ET WEATHER		erista i	ALC: NAME OF	State San
	SECTION AND AND		006 (7 Years/84 Mo Exceedance Day/T	A PROPERTY OF THE PARTY OF THE	April 2003 – March 2006 (3 Years/36 Months) Exceedance Percentage (Exceedance Day/Total Day			
Site	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio	Total Coliform	Fecal Coliform	Enterococcus	Fecal Coliform to Total Coliform Ratio
Peninsula Beach (Harbor Cove) -VCEH	25.00% (17/68)	14.71% (10/68)	39.71% (27/68)	2.94% (2/68)	30.00% (9/30)	10.00% (3/30)	30.00% (9/30)	3.33% (1/30)
Peninsula Beach (Harbor Cove) -VPW	19.05% (4/21)	4.76% (1/21)	0.00% (0/21)	4.76% (1/21)	15.38% (2/13)	0.00% (0/13)	0.00% (0/12)	0.00% (0/13)
Channel Islands Harbor Beach (Kiddie Beach)	20.92% (41/196)	18.88% (37/196)	43.37% (85/196)	10.71% (21/196)	17.14% (12/70)	21.43% (15/70)	32.86% (23/70)	14.29% (10/70)
Hobie Beach	12.50 (5/40)	25.00% (10/40)	37.50% (15/40)	12.50% (5/40)	5.56% (1/18)	11.11% (2/18)	27.78% (5/18)	5.56% (1/18)

VCEH= County of Ventura, Environmental Health Monitoring Data

Channel Islands Harbor Beaches

- Contributions of Harbor Waters Harbor Dept sampling and VCEHD sampling
 - Storm Drains
 - Marina Activities
 - dock wash down
 - boat sewage discharges

Channel Islands Harbor Beaches

- Contributions of Local Sources
 - Birds and other wildlife
 - Local sanitary sewer or storm drain links

Harbor Cove Beach

- Contributions of Harbor Waters City of Ventura Harbor Sampling
 - Storm Drains
 - Arundell Barranca
 - Marina Activities
 - dock wash down
 - boat sewage discharges

Harbor Cove Beach

- Contributions of Local Sources
 - Birds and other wildlife
 - Storm drain links

Reference Beach Approach

Reference Beach Approach
not a simple application of standards
not a "natural source exclusion"

- No geometric mean exceedances
- <u>Some</u> single sample exceedances
- Separate targets for wet and dry weather

Existing Measures

Signs





Existing Measures

- Animal waste disposal mitt dispenser
- Trashcan Lids





Implementation Plans

- Responsible Parties
- Monitoring
- Allocations and interim allocations
- Special Studies
- Actions
 - BMPs
 - Infrastructure projects



BMPs

- Oloids from West Technology Systems Inc.
 - − ½ HP motors









BMPs



Tentative Implementation Plan for Ventura Beaches

- Responsible Parties
 - City of Oxnard
 - City of Ventura
 - Ventura Port District
 - County of Ventura
 - As of TMDL Approval
 - no increase of exceedance days (interim allocation)
 - monitoring program
 - (one to two years)
 - completion of any special studies
 - (three to four years)
 - reassessments if necessary
 - (Dependent on required implementation actions)
 - meet all targets

Schedule-RWQCB with Stakeholder input

- CEQA Scoping Meeting
- Draft Staff Report, Draft Resolution, CEQA
 Document
 - stakeholder comment period (45 days)
- Regional Board Adoption
- State Board Approval
- OAL Approval
- EPA Approval

Contacts

California Regional Water Quality Control Board,

Los Angeles Region

- Man Voong
 - mvoong@ waterboards.ca.gov
 - **(213) 576-6808**
- LB Nye
 - Inye@waterboards.ca.gov
 - -(213)576-6785